

ABSTRACT OF THE DISCLOSURE

5 A surface optical apparatus that includes a surface optical
device with p-side and n-side electrodes, such as a surface
emitting laser, a first substrate for supporting the surface
optical device directly or through an elastic supporter formed of
a or plural layers, and a first electrode wiring of at least a wire
formed on the first substrate and electrically connected to the
electrode. A current is injected into or a voltage is applied
across the surface optical device through the first electrode
10 wiring and the p-side and n-side electrodes. A photodetector for
detecting light from the surface optical device may also be
arranged in the vicinity of the optical device.